SEQUENCE LISTING

<110> Sheppard, Paul O.
Jelinek, Laura J.

<120> Mammalian Secretory Protein - 9

<130> 97-11C2

<150> 09/318,028
<151> 1999-05-25

<150> 09/109,808
<151> 1998-07-02

<150> 60/089,899
<151> 1998-06-17

<150> 60/085,983
<151> 1998-05-19

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<151> 1997-07-03

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<170> FastSEQ for Windows Version 3.0

<210> 1
<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (104)...(354)

<400> 1

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cggcccaagg ctggggccaa agtgaaagtc cagcggtctt ccagcgcttg ggccacggcg     60
gcggccctgg gaccaaaggt ggagcaaccc cgttacccta aat atg aaa ggc tgg      115
                                                 Met Lys Gly Trp
                                                  1
```

```
ggt tgg ctg gcc ctg ctt ctg ggg gcc ctg ctg gga acc gcc tgg gct      163
Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly Thr Ala Trp Ala
 5                  10                  15                  20

cgg agg agc cag gat ctc cac tgt gga gca tgc agg gct ctg gtg gat      211
Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp
                25                  30                  35

gaa cta gaa tgg gaa att gcc cag gtg gac ccc aag aag acc att cag      259
Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln
            40                  45                  50

atg gga tct ttc cgg atc aat cca gat ggc agc cag tca gtg gtg gag      307
Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu
        55                  60                  65

gta act gtt act gtt ccc cca aac aaa gta gct cac tct ggc ttt gg       354
Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His Ser Gly Phe
    70                  75                  80

atgaaattcg attgcttaaa aaggaccttg gtttaataga aatgaagaaa acagactcag    414
aaaaaagatt tggctctgtc tcatttggaa gaagctgcag gcttattccc catgcacttg    474
cttcctggct gcaaacctta atactttgtt tatgctgtag aatttgttag caaacaggga    534
gtcctgatca gcacccttct ccacatccac atgactggtt tttaatgtag cactgtggta    594
tacatgcaaa cattccgttc aaaatctgag tcggagctaa aaaaaaaaaa aaaaa         649
```

<210> 2
<211> 83
<212> PRT
<213> Homo sapiens

<400> 2

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Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly
 1               5                  10                  15
Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg
            20                  25                  30
Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys
        35                  40                  45
Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln
    50                  55                  60
Ser Val Val Glu Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His
65                  70                  75                  80
```

Ser Gly Phe

<210> 3
<211> 64
<212> PRT
<213> Homo sapiens

<400> 3

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Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp
 1               5                  10                  15
Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln
            20                  25                  30
Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu
        35                  40                  45
Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His Ser Gly Phe Gly
    50                  55                  60
```

<210> 4
<211> 62
<212> PRT
<213> Homo sapiens

<400> 4

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Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp Glu Leu
 1               5                  10                  15
Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln Met Gly
            20                  25                  30
Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu Val Thr
        35                  40                  45
Val Thr Val Pro Pro Asn Lys Val Ala His Ser Gly Phe Gly
    50                  55                  60
```

<210> 5
<211> 25
<212> PRT
<213> Homo sapiens

<400> 5

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Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp Glu Leu
 1               5                  10                  15
Glu Trp Glu Ile Ala Gln Val Asp Pro
            20                  25
```

<210> 6
<211> 35
<212> PRT
<213> Homo sapiens

<400> 6

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Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser
 1               5                  10                  15
Val Val Glu Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His Ser
            20                  25                  30
Gly Phe Gly
        35
```


<210> 7
<211> 415
<212> DNA
<213> Homos sapiens

<400> 7

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ctggggcaaa gtgagagtcc agcggtcttc cagcgcttgg gccacggcgg cggcctggga      60
gcagaggtgg agcgacccca ttacgctaaa gatgaaaggc tggggttggc tggccctgct     120
tctgggggcc ctgctgggaa ccgcctgggc tcggaggagc agggatctcc actgtggagc     180
atgcagggct ctggtggatg aactagaatg ggaaattgcc caggtggacc ccaagaagac     240
cattcagatg ggatctttcc ggatcaatcc agatggcagc cagtcagtgg ttgaggtaac     300
tgttactgtt cccccaaaca aagtagctca ctctggcttt agatgaattt cgatttattt     360
aaaaaggacc tttgttttat taggaattga agaaaacaga ttcagaaaaa agttt          415
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<210> 8
<211> 10
<212> PRT
<213> Homo sapiens

<400> 8

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Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ser
 1               5                  10
```

<210> 9
<211> 25
<212> DNA
<213> Homo sapiens

<400> 9

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gcgcggatcc cggaggagcc aggat                                           25
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<210> 10
<211> 25
<212> DNA
<213> Homo sapiens

<400> 10
cgcgctcgag tcatccaaag ccaga 25

<210> 11
<211> 25
<212> DNA
<213> Homo sapiens

<400> 11
gcgcgaattc atgaaaggct ggggt 25

<210> 12
<211> 25
<212> DNA
<213> Homo sapiens

<400> 12
cgcgggatcc tccaaagcca gagtg 25

<210> 13
<211> 40
<212> DNA
<213> Homo sapiens

<400> 13
ttcatccacc agagccctgc atgctccaca gtggagatcc 40

<210> 14
<211> 18
<212> DNA
<213> Homo sapiens

<400> 14
gggctctggt ggatgaac 18

<210> 15
<211> 18

<212> DNA
<213> Homo sapiens

<400> 15
tacctccacc actgactg 18

<210> 16
<211> 806
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (104)...(649)

<400> 16
cggcccaagg ctggggccaa agtgaaagtc cagcggtctg ccagcgcttg ggccacggcg 60
gcggccctgg gaccaaaggt ggagcaaccc cgttacccta aar atg aaa ggc tgg 115
Met Lys Gly Trp
1

ggt tgg ctg gcc ctg ctt ctg ggg gcc ctg ctg gga acc gcc tgg gct 163
Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly Thr Ala Trp Ala
5 10 15 20

cgg agg agc cag gat ctc cac tgt gga gca tgc agg gct ctg gtg gat 211
Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp
25 30 35

gaa cta gaa tgg gaa att gcc cag gtg gac ccc aag aag acc att cag 259
Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln
40 45 50

atg gga tct ttc cgg atc aat cca gat ggc agc cag tca gtg gtg gag 307
Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu
55 60 65

gtg cct tat gcc cgc tca gag gcc cac ctc aca gag ctg ctg gag gag 355
Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu Leu Leu Glu Glu
70 75 80

ata tgt gac cgg atg aag gag tat ggg gaa cag att gat cct tcc acc 403

```
Ile Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile Asp Pro Ser Thr
 85                  90                  95                 100

cat cgc aag aac tac gta cgt gta gtg ggc cgg aat gga gaa tcc agt      451
His Arg Lys Asn Tyr Val Arg Val Val Gly Arg Asn Gly Glu Ser Ser
                105                 110                 115

gaa ctg gac cta caa ggc atc cga atc gac tca gat att agc ggc acc      499
Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp Ile Ser Gly Thr
            120                 125                 130

ctc aag ttt gcg tgt gag agc att gtg gag gaa tac gag gat gaa ctc      547
Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr Glu Asp Glu Leu
        135                 140                 145

att gaa ttc ttt tcc cga gag gct gac aat gtt aaa gac aaa ctt tgc      595
Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys Asp Lys Leu Cys
    150                 155                 160

agt aag cga aca gat ctt tgt gac cat gcc ctg cac ata tcg cat gat      643
Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His Ile Ser His Asp
165                 170                 175                 180

gag cta tgaaccactg gagcagccca cactggcttg atggatcacc cccaggaggg      699
Glu Leu

gaaaatggtg gcaatgcctt ttatatatta tgtttttact gaaattaact gaaaaaatat    759
gaaaccaaaa gtaaaaaaaa aaaaaaaaag agagagagag agaacta                  806
```

<210> 17
<211> 182
<212> PRT
<213> Homo sapiens

<400> 17

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Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly
 1               5                  10                  15
Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg
            20                  25                  30
Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys
        35                  40                  45
```

```
Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln
    50                  55                  60
Ser Val Val Glu Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu
65                  70                  75                  80
Leu Leu Glu Glu Ile Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile
                85                  90                  95
Asp Pro Ser Thr His Arg Lys Asn Tyr Val Arg Val Val Gly Arg Asn
            100                 105                 110
Gly Glu Ser Ser Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp
        115                 120                 125
Ile Ser Gly Thr Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr
    130                 135                 140
Glu Asp Glu Leu Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys
145                 150                 155                 160
Asp Lys Leu Cys Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His
                165                 170                 175
Ile Ser His Asp Glu Leu
            180
```


<210> 18
<211> 1069
<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (358)...(903)

<400> 18

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gaattcggca cgaggggggt cctcgctgcc tcggaggcgc tcctaaagct gcctgctcgc     60
gcgagagttt ggaggggcgg gcttagggtc agtttcggtg gggggctcgc acgggaccct    120
cagatctccg cttaggtgcc tagttaagtg cgggaagctg ggccaggcgg tcactggcca    180
ccctgaacct ggcgggagcc ggagcgctct ggagaagccg ggacagcccc gtttttccca    240
gccagctgct agggttggga cccacagaaa acaaagtgag agtccggctg ctttccagag    300
cctgggccac ggcggcggcc gtgggagcag aggtggagcg accctgttac actaaag atg   360
                                                                 Met
                                                                  1

aaa ggc tgg ggt tgg cta gcc cta ctt ttg ggg gtc ctg ctg gga act      408
Lys Gly Trp Gly Trp Leu Ala Leu Leu Leu Gly Val Leu Leu Gly Thr
  5                  10                  15
```

```
gcc tgg gct cga agg agc caa gat cta cac tgt gga gct tgc agg gct      456
Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala
         20                  25                  30

ctg gtg gat gaa tta gag tgg gaa att gcc cgc gtg gac ccc aag aag      504
Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Arg Val Asp Pro Lys Lys
     35                  40                  45

acc att cag atg gga tcc ttc cga atc aat cca gat ggc agc cag tca      552
Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser
 50                  55                  60                  65

gtt gtg gag gta cct tat gcc cgc tca gag gcc cac ctc aca gag ttg      600
Val Val Glu Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu Leu
                 70                  75                  80

ctt gag gag gtg tgt gac cga atg aag gag tac ggg gaa cag att gac      648
Leu Glu Glu Val Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile Asp
             85                  90                  95

cct tct acc cac cgc aag aac tac gta cgc gtc gtg agc cgg aat gga      696
Pro Ser Thr His Arg Lys Asn Tyr Val Arg Val Val Ser Arg Asn Gly
        100                 105                 110

gaa tcc agt gaa cta gac tta cag ggc atc cga att gac tca gat atc      744
Glu Ser Ser Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp Ile
    115                 120                 125

agc ggc acc ctc aag ttt gcg tgt gag agc att gtg gaa gaa tac gag      792
Ser Gly Thr Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr Glu
130                 135                 140                 145

gat gag ctt atc gaa ttc ttc tcc aga gag gct gac aac gtt aaa gac      840
Asp Glu Leu Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys Asp
                150                 155                 160

aaa ctt tgc agt aag cgg aca gat cta tgt gac cat gcc ctg cac aga      888
Lys Leu Cys Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His Arg
            165                 170                 175

tct cac gat gag cta tgaatcactg gagcaagcag cctacaccaa acgtgatgga      943
Ser His Asp Glu Leu
        180
```

acacccccag gaggggaaga tggcagcatt gccttttata ttacgttttt atggaaatga 1003
actgaaaaaa actcttgaaa ccgaaagtaa aaaaaaaaaa aaaaaaaaaa aaatttccgc 1063
ggccgc 1069

<210> 19
<211> 182
<212> PRT
<213> Mus musculus

<400> 19

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Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Leu Gly Val Leu Leu Gly
 1               5                  10                  15
Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg
            20                  25                  30
Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Arg Val Asp Pro Lys
        35                  40                  45
Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln
    50                  55                  60
Ser Val Val Glu Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu
65                  70                  75                  80
Leu Leu Glu Glu Val Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile
                85                  90                  95
Asp Pro Ser Thr His Arg Lys Asn Tyr Val Arg Val Val Ser Arg Asn
            100                 105                 110
Gly Glu Ser Ser Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp
        115                 120                 125
Ile Ser Gly Thr Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr
    130                 135                 140
Glu Asp Glu Leu Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys
145                 150                 155                 160
Asp Lys Leu Cys Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His
                165                 170                 175
Arg Ser His Asp Glu Leu
            180
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<210> 20
<211> 162
<212> PRT
<213> Homo sapiens

<400> 20

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Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp
 1               5                  10                  15
Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln
            20                  25                  30
Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu
        35                  40                  45
Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu Leu Leu Glu Glu
    50                  55                  60
Ile Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile Asp Pro Ser Thr
65                  70                  75                  80
His Arg Lys Asn Tyr Val Arg Val Val Gly Arg Asn Gly Glu Ser Ser
                85                  90                  95
Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp Ile Ser Gly Thr
            100                 105                 110
Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr Glu Asp Glu Leu
        115                 120                 125
Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys Asp Lys Leu Cys
    130                 135                 140
Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His Ile Ser His Asp
145                 150                 155                 160
Glu Leu
```

<210> 21
<211> 162
<212> PRT
<213> Mus musculus

<400> 21

```
Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp
 1               5                  10                  15
Glu Leu Glu Trp Glu Ile Ala Arg Val Asp Pro Lys Lys Thr Ile Gln
            20                  25                  30
Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu
        35                  40                  45
Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu Leu Leu Glu Glu
    50                  55                  60
Val Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile Asp Pro Ser Thr
65                  70                  75                  80
His Arg Lys Asn Tyr Val Arg Val Val Ser Arg Asn Gly Glu Ser Ser
                85                  90                  95
Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp Ile Ser Gly Thr
            100                 105                 110
```

Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr Glu Asp Glu Leu
115 120 125
Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys Asp Lys Leu Cys
130 135 140
Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His Arg Ser His Asp
145 150 155 160
Glu Leu

<210> 22
<211> 18
<212> DNA
<213> Mus musculus

<400> 22
tcgcgcgaga gtttggag 18

<210> 23
<211> 18
<212> DNA
<213> Mus musculus

<400> 23
cccagcttcc cgcactta 18

<210> 24
<211> 35
<212> PRT
<213> Homo sapiens

<400> 24
Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp
1 5 10 15
Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln
20 25 30
Met Gly Ser
35